## DEPARTMENT OF TRANSPORTATION INTER-DEPARTMENTAL MEMORANDUM DESIGN EXCEPTION REQUEST

To: George M. Clendenin	Date:	October 28, 2005		
From: Annette F. Adams				
Subject: DESIGN EXCEPTION REQUEST				
Prepared by: Thomas S. Miller	- J-PHANA Annua - Angapa			
State Project Number: 0609-057-140, B601 Federal Project Number:				
County/City: Mathews District:	Fred'burg	Funding Source: HBRRP		
Description: Appr. and Bridge over Garden Creek Canal PPMS # 18443				
* Currently listed in inventory as Winter Haven Canal				
Design Exception Request For:				
Design Speed Horizontal (other than "c	Clearance*	Vertical Clearance*		
X       Bridge Width*       Horizontal Alignment       Vertical Alignment         Lane Width       Sight Distance       Cross Slope         Shoulder Width       Superelevation       Grade         Structural Capacity*       Interstate Access Control       Other         * These are typically requested by the Bridge designer.				
Current ADT 138 Design ADT 207				
% Trucks N/A Design Speed 30		Posted Speed None		
Reduced Design Speed (if applicable) N/A				
Functional Classification Rural Local				
Minimum Design Standard GS-4 (GS-4 would require a 22 ft bridge width)	Requested Dimen	sions 16 ft bridge width		
Total estimated construction cost of project: (Based on approval of this exception)	\$806,000 w/o co	ontingency, CEI, or inflation		
dditional cost to meet minimum standard: \$61,633				

Background description of project:

(Include a description of the general characteristics of the existing highway focusing on the features relevant to the proposed exception. Provide a brief description of the adjacent highway segments, highlighting existing nonstandard features when relevant to the proposed exception.)

This structurally deficient bridge is on a low volume, dead end road. Parcels on the beach side have limited development potential. The existing bridge has 11 ft 6 inch horizontal clearance. The approach pavement, 16 ft. The Board of Supervisors of Mathews County resolved 11/1/01 to request "a single lane bridge." This project is eligible for HBRRP funds and is design build. Purpose and need for exception, Why standards cannot be met: (include any future plan to upgrade this exception to standard) The approaches are bound on both sides by tidal wetlands, a portion of which is DCR

conservation land. Additional bridge widening will require increased wetland impacts and right of way. Widening would also require additional investigation of approach settlement.

Accident history for the past 3 years: No accidents

Effect of design exception on safety: The narrower bridge width will restrict traffic to a single lane. Short lines of sight may require traffic stopping to avoid collisions.

Any mitigation of the substandard design element (s): Sign for single lane bridge.

Submitted By: Thomas S. Miller Date October 28, 2005  Remarks: Note that the increased construction cost to meet the minimum standard does not include the additional cost of right of way or wetlands mitigation.			
Recommended for Appr	oval By:	Date	
Remarks:			
2 CONTRACTOR OF THE PARTY OF TH			
VDOT Approval By:	N.A.	Date:	
	State Location and Design Engineer		
VDOT Approval By:	Signature on file at VDOT	Date: 11-4-2005	
	Stage Structure and Bridge Engineer		
FHWA Approval By:	N.A.	Date	
Remarks:			